BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK:- Improvements to roads and drains at Mariyamma Block and surrounding areas in ward no.11 in Kuvempunagar

Estimation Cost.Rs 9900000.00

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. **Earthwork excavation by manual means for roads,** drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications(P.No-143 &136 ,I No-19.1&17.4& 17.1) 5km lead= 57+2.0x1.28x5 =69.80								
	Desilt for Drain								
	Mariyamma Block								
	West Side								
	Cross Road 4	Cum	2	51.90	0.75	0.45	35.03		
	Cross Road 5	Cum	2	50.75	0.75	0.45	34.26		
	East Side								
	Cross Road 3	Cum	2	39.20	0.75	0.45	26.46		
	Cross Road 4	Cum	2	33.40	0.75	0.45	22.55		
	Kuvempu Nagar								
	4th Cross Masti Venkatesh iyengar Road	Cum	1	173.50	0.60	0.6	62.46		
	Flagging Course								
	Kuvempu Nagar								
	4th Cross Masti Venkatesh iyengar Road	**Cum**	**1**	**173.50**	0.30	0.6	31.23		
	New Drain								
	Mariyamma Block								
	East Side								
	Cross Road -2	**Cum**	2	42.58	1.15	1	97.92		
	West Side								
	Cross Road -3	**Cum**	1	55.65	1.05	0.95	55.51		
	West Side								
	Mariyamma Block Main Road (Cross Road 3 to Cross Road)	**Cum**	1	30.80	1.15	1	35.42		
	West Side								
	Mariyamma Block Main Road (Dead End)	**Cum**	2	30.10	1.15	1	69.23		
	Muniswamappa Layout (Devappa Layout)								
	Cross Road 1 (V.S Store To G.v Rama Rao House Road)	**Cum**	1	62.50	1.15	0.95	68.28		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Cross Road 2 (G.v Rama Rao House Road To Main Road)	**Cum**	1	70.50	1.10	0.95	73.67		
	Basic rate							130.00	
	Area weightage 6%							7.80	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						**612.02**	**207.60**	**127056.00**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.27-I.No.5.33)								
	Kuvempu Nagar								
	4th Cross Masti Venkatesh iyengar Road	Sqm	1	173.50	1.80		309.60		
	Consider 30% Missing or Damaged Slab						**92.88**		
	Basic rate							105.00	
	Area weightage 6%							6.3	
	Total						**216.72**	**111.30**	**24121.00**
3	Providing granite slabs of selected quality roughly dressed havinf a size of 7.5cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete.(P.No.27,I.No.5.31.1)								
	Consider 30% Missing or Damaged Slab Qty Vide From I no 02						**92.88**		
	Basic rate							700.00	
	Area weightage 6%							42.00	
						Total	**92.88**	**742.00**	**68917.00**
4	KSRB 4-1.3 : Providing and laying in position plain cement concrete of Mix 1:4:8 with OPC @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	For Flagging Course								
	Mariyamma Block								
	West Side								
	Cross Road 4	Cum	2	51.90	0.75	0.15	11.68		
	Cross Road 5	Cum	2	50.75	0.75	0.15	11.42		
	East Side								
	Cross Road 3	Cum	2	39.20	0.75	0.15	8.82		
	Cross Road 4	Cum	2	33.40	0.75	0.15	7.52		
	Flagging Course								
	Kuvempu Nagar								
	4th Cross Masti Venkatesh iyengar Road	Cum	1	173.50	0.30	0.15	7.81		
	For CC Road								
	Mariyamma Block								
	Main Road West Side								
	Cross Road 1	**Cum**	1	37.00	2.60	0.15	14.43		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Cross Road 2	Cum	1	61.50	3.05	0.15	28.14		
	Cross Road 4	Cum	1	53.75	2.86	0.15	23.05		
	Cross Road 5	Cum	1	50.00	2.95	0.15	22.13		
	Cross Road 6	Cum	1	47.35	2.95	0.15	20.95		
	Cross Road 7	Cum	1	43.25	3.05	0.15	19.79		
	Main Road East Side								
	Cross Road 3	Cum	1	47.50	2.98	0.15	21.23		
	Cross Road 4	Cum	1	36.80	2.55	0.15	14.08		
	Cross Road 5	Cum	1	38.00	4.25	0.15	24.20		
	MuniSwamappa Layout (Devappa Block)								
	G.v Rama Rao (Editor House)	Cum	1	79.00	3.19	0.15	37.80		
	Varadaraj Nagar								
	2nd Main Road	Cum	1	176.00	4.57	0.15	120.65		
	Manhole Deduction								
		Cum	-13	0.71		0.15	-1.38		
					(3.14*0.9) /4 = 0.71				
	Temple Deduction	Cum	-1	2.00	0.75	0.15	-0.23		
	Basic rate							5102.00	
	Area weightage 6%							306.12	
							Total	**392.08**	**5408.12**	**2120402.00**
5	KSRB 5-14: Providing and constructing load bearing wall with solid concrete blocks having block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials labour charges, scaffolding, curing, hire charges of machineries etc., complete as per specifications. blocks of size 400x200x200mm KBS No.5.4 (P.No-27,I No-5.26.1)								
	For Flagging Course								
	Mariyamma Block								
	West Side								
	Cross Road 4	Sqm	4	51.90		0.2	41.52		
	Cross Road 5	Sqm	4	50.75		0.2	40.60		
	East Side								
	Cross Road 3	Sqm	4	39.20		0.2	31.36		
	Cross Road 4	Sqm	4	33.40		0.4	53.44		
	Kuvempu Nagar								
	4th Cross Masti Venkatesh iyengar Road	Sqm	2	173.50		0.6	208.20		
	Add 5% for low lying area						12.49		
	Basic rate							962.00	
	Area weightage 6%							57.72	
							Total	**387.61**	**1019.72**	**395256.00**

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
6	KSRB 4-1.6 ; Providing and laying in position **plain cement concrete of Mix 1:2:4** with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No-13,I No-4.6)								
	For Flagging Course								
	Mariyamma Block								
	West Side								
	Cross Road 4	Cum	4	51.90	0.20	0.1	4.15		
	Cross Road 5	Cum	4	50.75	0.20	0.1	4.06		
	East Side								
	Cross Road 3	Cum	4	39.20	0.20	0.1	3.14		
	Cross Road 4	Cum	4	33.40	0.20	0.1	2.67		
	Kuvempu Nagar								
	4th Cross Masti Venkatesh iyengar Road	Cum	2	173.50	0.20	0.1	6.94		
	Basic rate							5422.00	
	Area weightage 6%							325.32	
	Total						**20.96**	**5747.32**	**120464.00**
7	KSRB 4-1.2 : Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2								
	New Drain								
	Mariyamma Block								
	East Side								
	Cross Road -2	Cum	2	42.58	1.15	0.15	14.69		
	West Side								
	Cross Road -3	Cum	1	55.65	1.05	0.15	8.76		
	West Side								
	Mariyamma Block Main Road (Cross Road 3 to Cross Road)	Cum	1	30.80	1.15	0.15	5.31		
	West Side								
	Mariyamma Block Main Road (Dead End)	Cum	2	30.10	1.15	0.15	10.38		
	Muniswamappa Layout (Devappa Layout)								
	Cross Road 1 (V.S Store To G.v Rama Rao House Road)	Cum	1	62.50	1.15	0.15	10.78		
	Cross Road 2 (G.v Rama Rao House Road To Main Road)	Cum	1	70.50	1.10	0.15	11.63		
	Basic rate							5194.00	
	Area weightage 6%							311.64	
						Total	**61.56**	**5505.64**	**338952.00**

Sl No	Description of work	Unit	Mesurement				Qty	Rate	Amount
			No.	L	B	D			
8	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm(Item No 37.59.2 page no 271)								
	Bottom Raft								
	Mariyamma Block								
	East Side								
	Cross Road -2	Cum	2	42.58	0.95	0.15	12.13		
	West Side								
	Cross Road -3	Cum	1	55.65	0.85	0.15	7.10		
	West Side								
	Mariyamma Block Main Road (Cross Road 3 to Cross Road)	Cum	1	30.80	0.95	0.15	4.39		
	West Side								
	Mariyamma Block Main Road (Dead End)	Cum	2	30.10	0.95	0.15	8.58		
	Muniswamappa Layout (Devappa Layout)								
	Cross Road 1 (V.S Store To G.v Rama Rao House Road)	Cum	1	62.50	0.95	0.15	8.91		
	Cross Road 2 (G.v Rama Rao House Road To Main Road)	Cum	1	70.50	0.90	0.15	9.52		
	Side Wall								
	Mariyamma Block								
	East Side								
	Cross Road -2	**Cum**	4	42.58	0.15	0.7	17.88		
	West Side								
	Cross Road -3	**Cum**	2	55.65	0.15	0.47	7.85		
	West Side								
	Mariyamma Block Main Road (Cross Road 3 to Cross Road)	**Cum**	2	30.80	0.15	0.7	6.47		
	West Side								
	Mariyamma Block Main Road (Dead End)	**Cum**	4	30.10	0.15	0.7	12.64		
	Muniswamappa Layout (Devappa Layout)								
	Cross Road 1 (V.S Store To G.v Rama Rao House Road)	**Cum**	2	62.50	0.15	0.65	12.19		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Cross Road 2 (G.v Rama Rao House Road To Main Road)	Cum	2	70.50	0.15	0.65	13.75		
	Basic rate							6670.00	
	Area weightage 6%							400.20	
	Total						121.39	7070.20	858278.00
9	KSRB M2200-6 Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. MORTH Specification NO.1600&2200Specification No. Pg No.229 Item No.28.8.2								
	For Drain	Cum					121.39		
		kg	Steel assumed 69.5Kg/Cum of Concrete				8436.86		
		tonne					8.44		
	Basic rate							68233	
	Area weightage 6%							4093.98	
	Total						8.44	72326.98	610213.00
10	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)								
	Drain cover slab								
	New Cc Drain								
	Mariyamma Block								
	East Side								
	Cross Road -2	Cum	2	42.58	0.75		63.86		
	West Side								
	Cross Road -3	Cum	1	55.65	0.75		41.74		
	West Side								
	Mariyamma Block Main Road (Cross Road 3 to Cross Road)	Cum	1	30.80	0.75		23.10		
	West Side								
	Mariyamma Block Main Road (Dead End)	Cum	2	30.10	0.75		45.15		
	Muniswamappa Layout (Devappa Layout)								
	Cross Road 1 (V.S Store To G.v Rama Rao House Road)	Cum	1	62.50	0.75		46.88		
	Cross Road 2 (G.v Rama Rao House Road To Main Road)	Cum	1	70.50	0.75		52.88		
	For Flagging Course								
	Mariyamma Block								

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	West Side								
	Cross Road 4	**Sqm**	**2**	**51.90**	**0.75**		77.85		
	Cross Road 5	**Sqm**	**2**	**50.75**	**0.75**		76.13		
	East Side								
	Cross Road 3	**Sqm**	**2**	**39.20**	**0.75**		58.80		
	Cross Road 4	**Sqm**	**2**	**33.40**	**0.75**		50.10		
	Kuvempu Nagar								
	4th Cross Masti	**Sqm**	**1**	**116.00**	**0.90**		104.40		
	Missing Slab	**Cum**	**27**	**0.90**	**0.60**		14.58		
	Data rate							**2337.00**	
	Total						**655.46**	**2337.00**	**1531799.00**
11	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202(P.No.140- I.No.18.47) & Pg No.136, Item No.17.4,17.1 (5km lead = 57+2*1.28X5)								
	Mariyamma Block								
	Main Road West Side								
	Cross Road 1	**Cum**	1	37.00	2.60	0.2	19.24		
	Cross Road 2	**Cum**	1	61.50	3.05	0.2	37.52		
	Cross Road 4	**Cum**	1	53.75	2.90	0.2	31.18		
	Cross Road 5	**Cum**	1	50.00	3.00	0.2	30.00		
	Cross Road 6	**Cum**	1	47.35	3.00	0.2	28.41		
	Cross Road 7	**Cum**	1	43.25	3.05	0.2	26.38		
	Main Road East Side								
	Cross Road 3	**Cum**	1	47.50	3.00	0.2	28.50		
	Cross Road 4	**Cum**	1	36.80	2.60	0.2	19.14		
	Cross Road 5	**Cum**	1	38.00	4.25	0.2	32.34		
	MuniSwamappa Layout (Devappa Block)								
	G.v Rama Rao (Editor House)	**Cum**	1	79.00	3.20	0.2	50.56		
	Manhole Deduction								
		Cum	-11	0.71		0.2	-1.55		
					(3.14*0.9) /4 = 0.71				
	Temple Deduction	**Cum**	-1	2.00	0.75	0.2	-0.30		
	Basic rate							899.00	
	Area weightage 6%							53.94	
	5Km lead & Lift= 57+(2*1.28*5)							69.80	
	Total						**301.40**	**1022.74**	**308256.00**
12	KSRRB 300-50. Scarifying bituminous course 50mm to 75mm thick along with premix carpet / surface dressing by road roller attached with scarifier without disturbing the base and stacking the debris including cost of all labour charges, HOM of machineries complete as per specifications. MORTH / Chapter 3(P.No.146, I.No.19.56)								
	Varadaraj Nagar								
	2nd Main Road	Sqm	1	176.00	4.57		804.99		

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
	Manhole Deduction								
		Sqm	-2	0.71			-1.41		
	Basic rate							39.00	
	Area weightage 6%							2.34	
	Total						**803.58**	**41.34**	**33220.00**
13	KSRRB M300-14. **Excavation for roadwork in all types of soil** by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications MORTH Specificatio MORTH Specification No.301Loading and unloading with 10km lead= (I No-19.14,P No-143)								
	Mariyamma Block								
	Main Road West Side								
	Cross Road 1	**Cum**	1	37.00	2.60	0.15	14.43		
	Cross Road 2	**Cum**	1	61.50	3.05	0.15	28.14		
	Cross Road 4	**Cum**	1	53.75	2.90	0.15	23.38		
	Cross Road 5	**Cum**	1	50.00	3.00	0.15	22.50		
	Cross Road 6	**Cum**	1	47.35	3.00	0.15	21.31		
	Cross Road 7	**Cum**	1	43.25	3.05	0.15	19.79		
	Main Road East Side								
	Cross Road 3	**Cum**	1	47.50	3.00	0.15	21.38		
	Cross Road 4	**Cum**	1	36.80	2.60	0.15	14.35		
	Cross Road 5	**Cum**	1	38.00	4.25	0.15	24.25		
	MuniSwamappa Layout (Devappa Block)								
	G.v Rama Rao (Editor House)	**Cum**	1	79.00	3.20	0.15	37.92		
	Varadaraj Nagar								
	2nd Main Road	**Cum**	1	176.00	4.57	0.15	120.75		
	Manhole Deduction								
		Cum	-13	0.71		0.15	-1.38		
					(3.14*0.9) /4 = 0.71				
	Temple Deduction	**Cum**	-1	2.00	0.75	0.15	-0.23		
	Basic rate							41.00	
	Area weightage 6%							2.46	
	5Km lead= (2*1.28*5)							12.80	
	Total						**346.59**	**56.26**	**19500.00**

Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
14	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, using a grade concrete M30 over a prepared base with OPC coarse aggregate @ 0.69cum fine aggregate @ 0.46cum,coarse and fine aggregate confirming to IS:383-2016,with superplastisiser @3lts confirming to IS9103-2008mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades, textured with texturing machine,and curing including cost of all materials,labour,hire chargedof machines,all lead and lift charges etc., complete as per specifications. - do with OPC at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum Pg No.176Item No.22.6.1								
	Mariyamma Block								
	Main Road West Side								
	Cross Road 1	Cum	1	37.00	2.60	0.15	14.43		
	Cross Road 2	Cum	1	61.50	3.05	0.15	28.14		
	Cross Road 4	Cum	1	53.75	2.90	0.15	23.38		
	Cross Road 5	Cum	1	50.00	3.00	0.15	22.50		
	Cross Road 6	Cum	1	47.35	3.00	0.15	21.31		
	Cross Road 7	Cum	1	43.25	3.05	0.15	19.79		
	Main Road East Side								
	Cross Road 3	Cum	1	47.50	3.00	0.15	21.38		
	Cross Road 4	Cum	1	36.80	2.60	0.15	14.35		
	Cross Road 5	Cum	1	38.00	4.25	0.15	24.25		
	MuniSwamappa Layout (Devappa Block)								
	G.v Rama Rao (Editor House)	Cum	1	79.00	3.20	0.15	37.92		
	Varadaraj Nagar								
	2nd Main Road	Cum	1	176.00	4.6	0.15	120.75		
	Manhole Deduction								
		Cum	-13	0.71		0.15	-1.38		
					(3.14*0.9) /4 = 0.71				
	Temple Deduction	Cum	-1	2.00	0.75	0.15	-0.23		
	Basic rate							4916.00	
	Area weightage 6%							294.96	
	Total						**346.59**	**5210.96**	**1806056.00**
								Grand Total	**8362490.00**
								For KRIDL Charges 3+1=4%	**334499.60**
								DPR Charges (1% of estimated cost)	**99000.00**
								Project management And Consultancy Charges(1% of estimated cost)	**99000.00**

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Sl No	Description of work	Unit	Mesurement No.	L	B	D	Qty	Rate	Amount
								GST Charges (12% of estimated cost)	1024058.84
								Miscellenious and rounding	764.53
								Total Amount	9900000.00
								RUPEES NINETY NINE LAKHS ONLY	

CERTIFICATE:

1) The work spot has been inspected and found to be necessary
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessary and minimum
4) The estimate is based on C.S.R of 2018-2019,Issue rates and Data Rates.

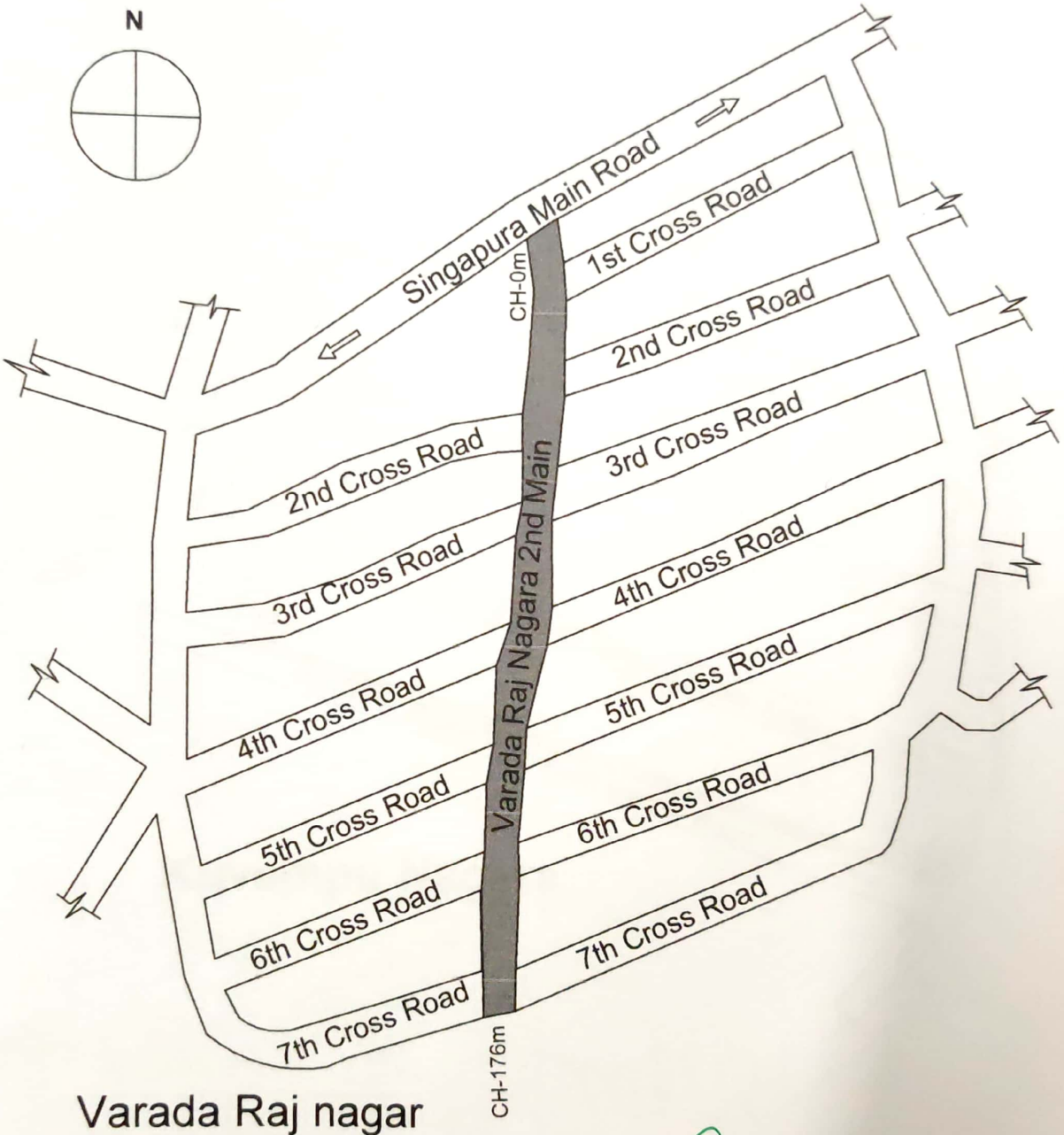
Assistant Engineer
Vidhyaranyapuram Sub Division
BBMP

Assistant Executive Engineer
Vidhyaranyapuram Sub Division
BBMP

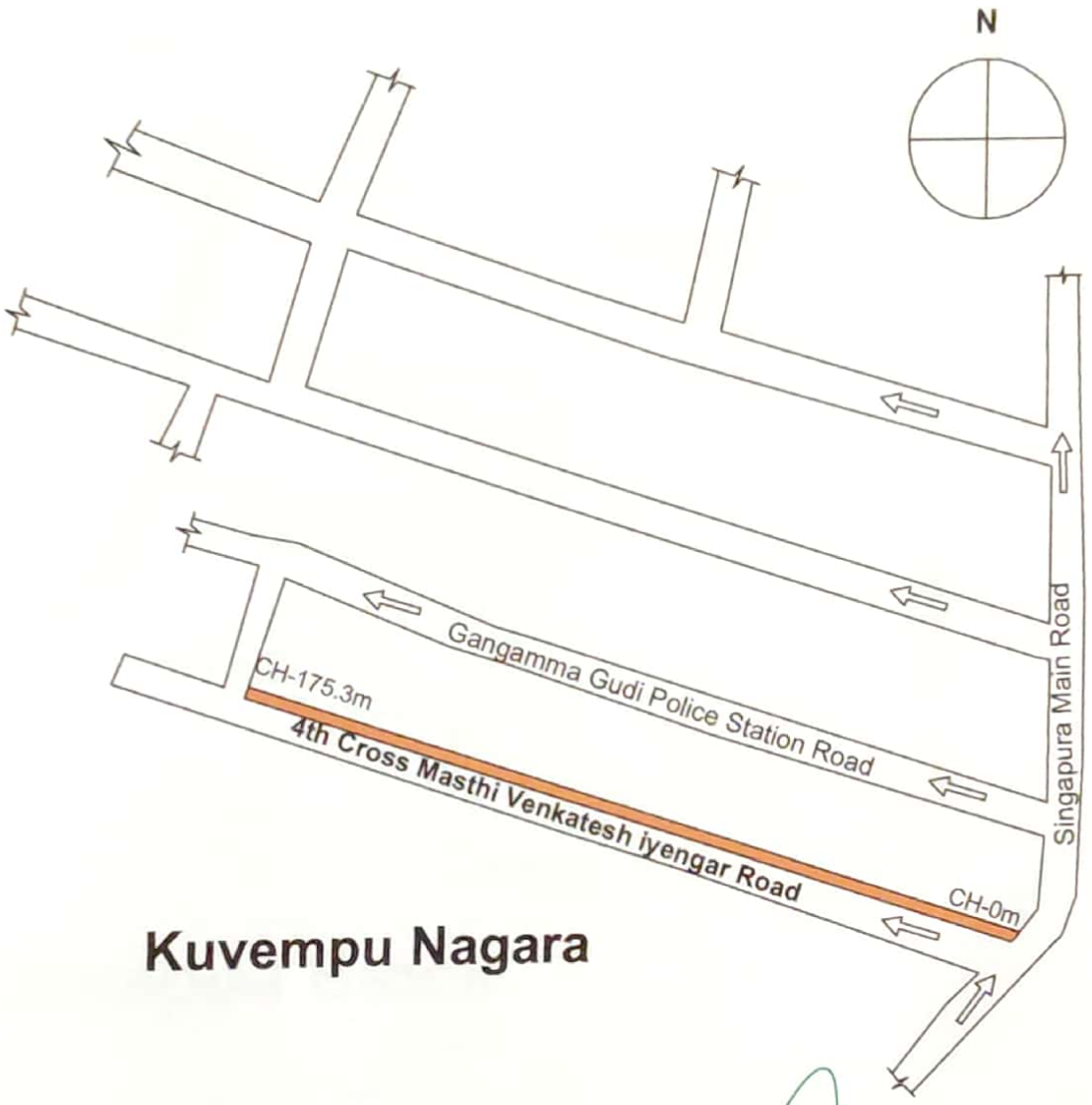
Executive Engineer
~~Vidhyaranyapuram~~ BTP Division
BBMP

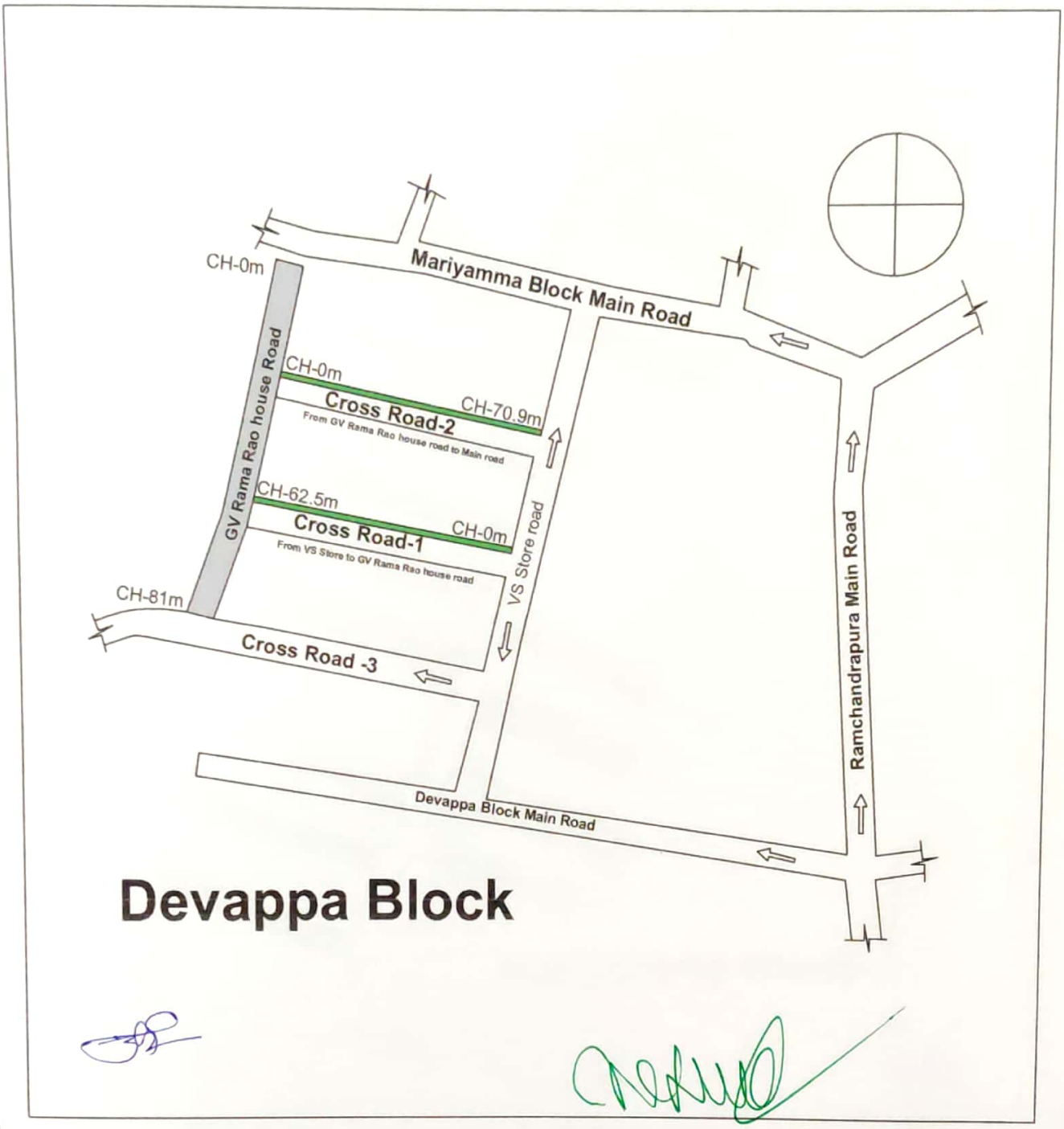
ADMINISTRATIVE APPROVAL
Accorded For Rs. 99.00 Ninety Nine Lakhs only
Head of A/c. P3727, SC-SP/TSP
Adv. Ref. No. 68/19-20 Date. 24-10-19
AE 24/10
EE(BTP) 24/10

Technical Sanction
Accorded For Rs 99.00 Lakhs only
Head of A/C. P3727
CER NO : 147 Dt: 28.10.2019
TA
CE (YNK)

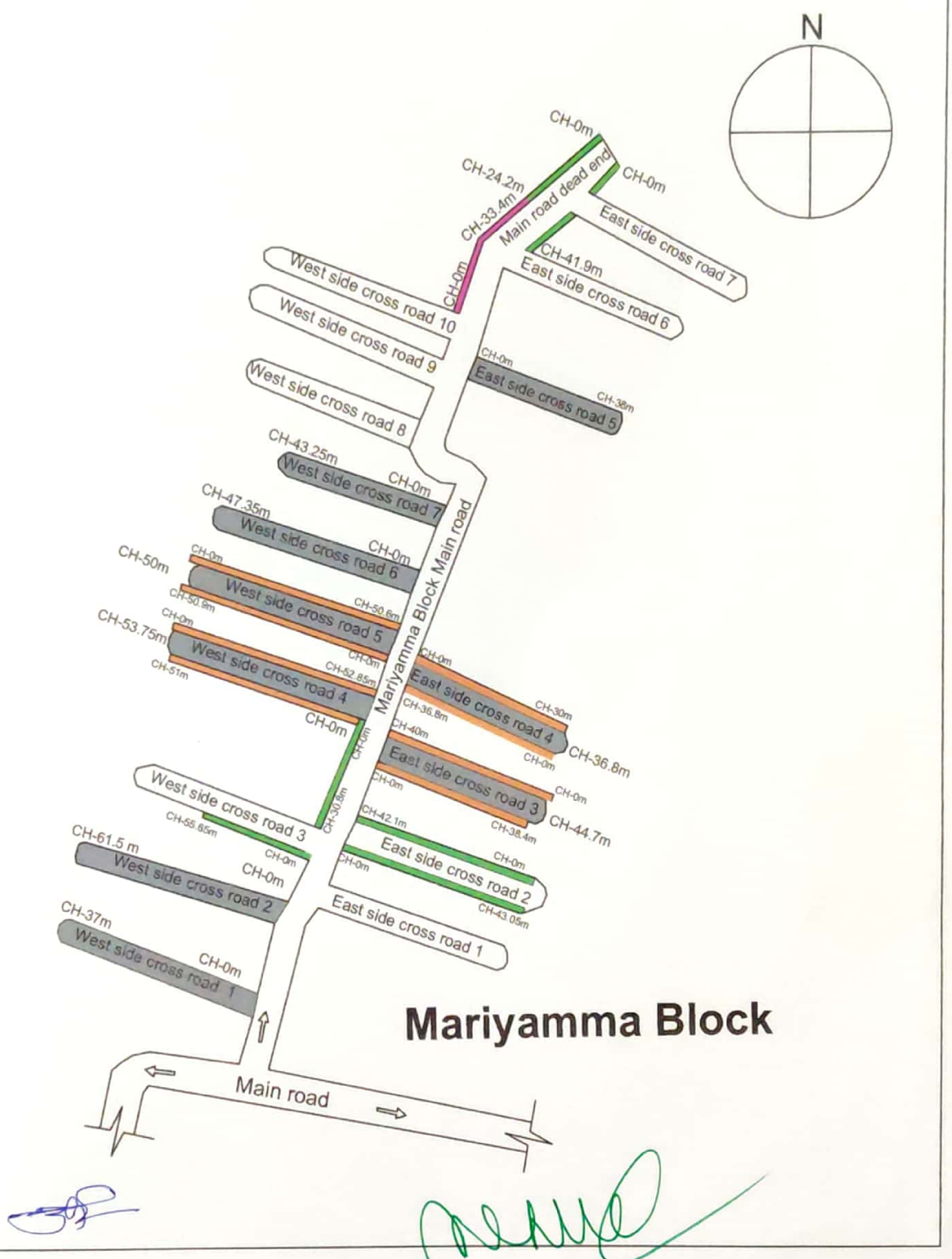


Varada Raj nagar


N
Singapura Main Road
Gangamma Gudi Police Station Road
CH-175.3m
4th Cross Masthi Venkatesh iyengar Road
CH-0m
Kuvempu Nagara



Devappa Block


N
CH-0m
CH-24.2m
CH-33.4m
Main road dead end
CH-0m
East side cross road 7
CH-41.9m
East side cross road 6
CH-0m
East side cross road 5
CH-38m
West side cross road 10
West side cross road 9
West side cross road 8
CH-43.25m
West side cross road 7
CH-0m
CH-47.35m
West side cross road 6
CH-0m
CH-50m
West side cross road 5
CH-50.6m
CH-53.75m
West side cross road 4
CH-52.85m
CH-51m
Mariyamma Block Main road
CH-0m
East side cross road 4
CH-30m
CH-36.8m
CH-36.8m
CH-40m
East side cross road 3
CH-44.7m
CH-38.4m
CH-42.1m
East side cross road 2
CH-43.05m
East side cross road 1
CH-0m
CH-30.8m
West side cross road 3
CH-55.65m
CH-61.5 m
West side cross road 2
CH-37m
West side cross road 1
Main road
Mariyamma Block